

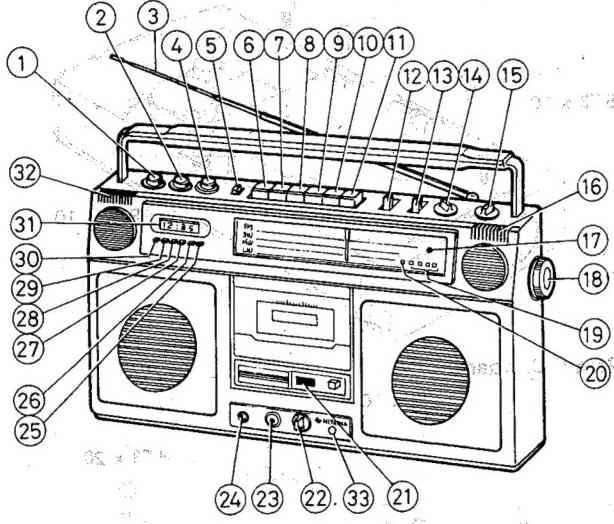
HITACHI

TRK-8110E, E(BS)

SERVICE MANUAL

No. 1276

KEY TO ILLUSTRATIONS



- | | | | |
|---|-----------------------------------|---|-----------------------------------|
| ① | BASS CONTROL | ⑯ | FM STEREO INDICATOR |
| ② | TREBLE CONTROL | ⑯ | TUNING CONTROL |
| ③ | TELESCOPIC ANTENNA
(AERIAL) | ⑯ | LEVEL INDICATOR (LED) |
| ④ | VOLUME CONTROL (L, R) | ⑯ | OPERATION INDICATOR |
| ⑤ | MODE SWITCH | ㉑ | TAPE COUNTER |
| ⑥ | PAUSE BUTTON | ㉒ | MIXING VOLUME CONTROL |
| ⑦ | FAST-FORWARD/CUE
BUTTON | ㉓ | MIXING SOCKET |
| ⑧ | REWIND/REVIEW BUTTON | ㉔ | HEADPHONE SOCKET |
| ⑨ | PLAYBACK BUTTON | ㉕ | SLEEP OFF/SNOOZE BUTTON |
| ⑩ | RECORD BUTTON | ㉖ | SLEEP ON BUTTON |
| ⑪ | STOP/EJECT BUTTON | ㉗ | TIMER SET BUTTON |
| ⑫ | TAPE SELECTOR SWITCH | ㉘ | TIME SET BUTTON |
| ⑬ | POWER SWITCH | ㉙ | MINUTE SET BUTTON |
| ⑭ | FUNCTION SELECTOR | ㉚ | HOUR SET BUTTON |
| ⑮ | BAND SELECTOR | ㉛ | TIMER DISPLAY |
| ⑯ | BUILT-IN MICROPHONE
(RIGHT) | ㉜ | BUILT-IN MICROPHONE
(LEFT) |
| ㉑ | AC POWER INDICATOR
[FOR E(BS)] | ㉝ | AC POWER INDICATOR
[FOR E(BS)] |

SPECIFICATIONS

GENERAL SECTION

Semi-conductors:

IC's: 8

Transistors: 11

Diodes: 16

LED's: 2

Power (Mains) Supply:

AC: 220V, 50 Hz [For E]

240V, 50 Hz [For E(BS)]

DC: 12V (IEC R20 x 8 or equivalent)

Power (Mains) Consumption:

18W

Dimensions:

455(W) x 255(H) x 148(D)

Weight:

5.2 kg (with batteries)

Power output:

4 w/ch (T.H.D. 10%)

Speaker:

120 mm, 3.2 ohms x 2

50 mm, 8 ohms x 2

TUNER SECTION

Circuit System:

FM/SW/MW/LW 4-band
superheterodyne

Tuning Range:

FM: 87.5 to 108 MHz

SW: 6.0 to 18 MHz

MW: 530 to 1605 kHz

LW: 150 to 350 kHz

Sensitivity:

FM: 10 dB (pra.) 0 dB (max.)

SW: 30 dB (pra.) 20 dB (max.)

MW: 45 dB (pra.) 35 dB (max.)

LW: 55 dB (pra.) 40 dB (max.)

Intermediate Frequency:

FM: 10.7 MHz

SW/MW/LW: 465 kHz

Antennas (Aerials):

FM/SW: Telescopic antenna

MW/LW: Built-in ferrite-core antenna

TAPE RECORDER

Tape:

Cassette tape (C-30, 60, 90)

4.75 cm/s

AC bias

Quasi-AC erase

4 track 2 channel

Normal: 50 Hz to 10 kHz

CrO₂: 50 Hz to 12 kHz

S/N (Signal to Noise

Ratio):

WoW and Flutter:

Cross Talk:

Erase Ratio:

Input Sensitivity and

Impedance:

Output Level and

Impedance:

Fast Forward or

Rewinding Time:

Distortion:

Motor:

Microphone: 5 mV, 10 kohms

Record/playback (DIN): 60 mV,

50 kohms

Record/playback (DIN): 500 mV,

5 kohms

EXT. Speaker: 3.2 ohms

120 sec. (Using C-60)

5%

DC Micro motor

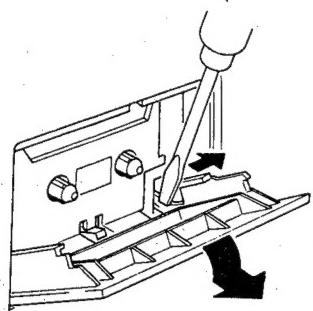
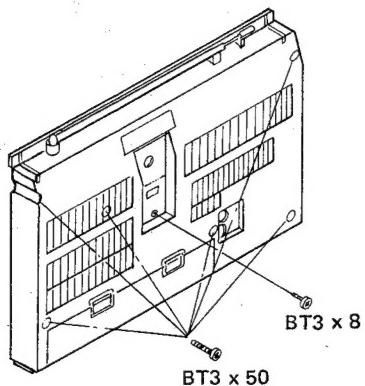
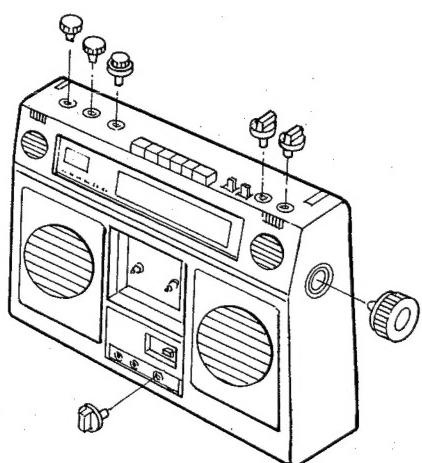
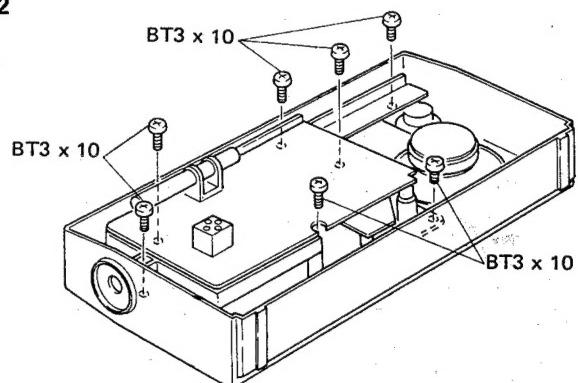
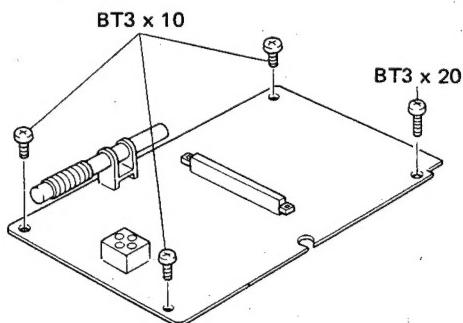
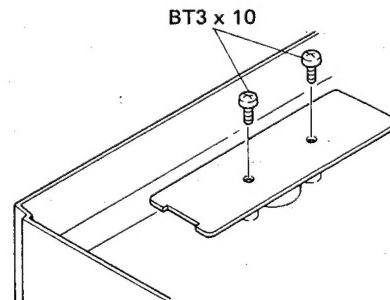
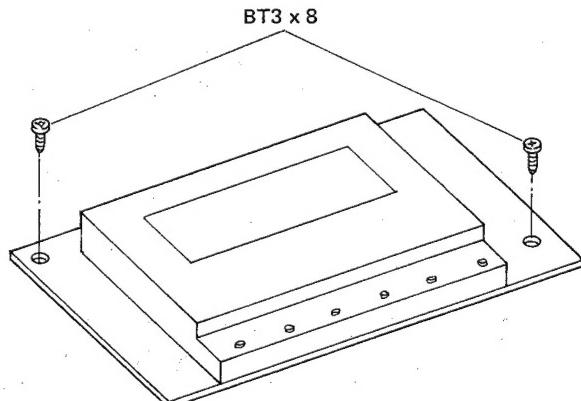
CASSETTE TAPE RECORDER WITH FM/SW/MW/LW RADIO

Oct. 1979

SAFETY PRECAUTION

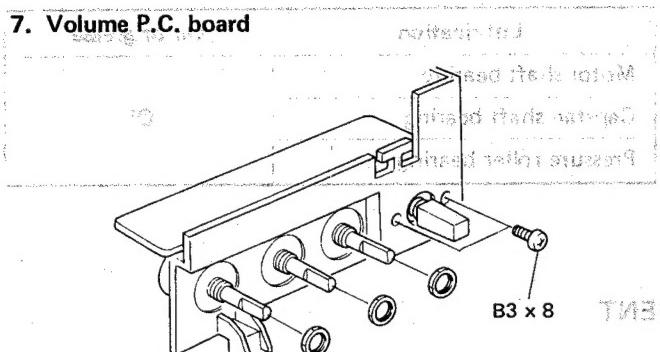
The following precautions should be observed when servicing.

1. Since many parts in the unit have special safety-related characteristics, always use genuine Hitachi's replacement parts. Especially critical parts in the power circuit block should not be replaced with other makers. Critical parts are marked with  in the schematic diagram, and circuit board diagram.
2. Before returning a repaired unit to the customer, the service technician must thoroughly test the unit to ascertain that it is completely safe to operate without danger of electrical shock.

DISASSEMBLY**1. Cassette lid****2. Rear case****3. Main chassis****3-1****3-2****4. Main P.C. board****5. Mix P.C. board****6. Timer P.C. board**

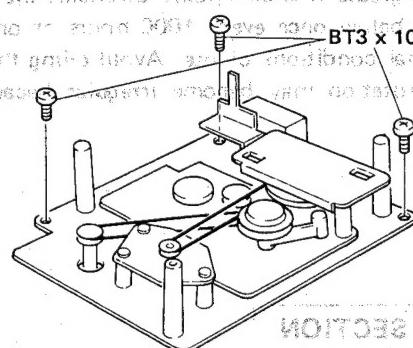
MONITOR CIRCUIT

7. Volume P.C. board

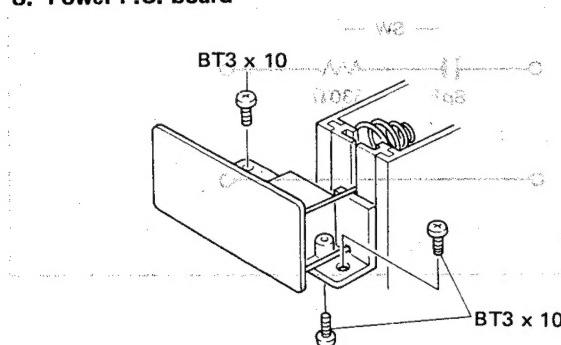


9. Cassette chassis

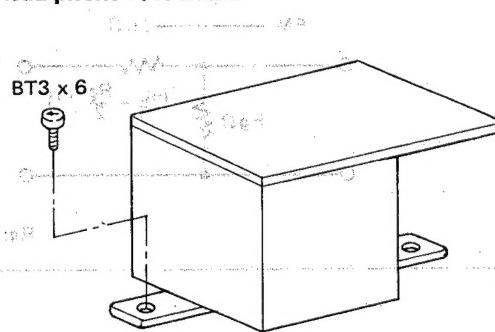
Diagram showing the cassette chassis assembly. It includes a note: "avoid damage to the circuit board by not touching it directly or by using a static-free screwdriver". A screw labeled BT3 x 10 is shown being used to secure the board.



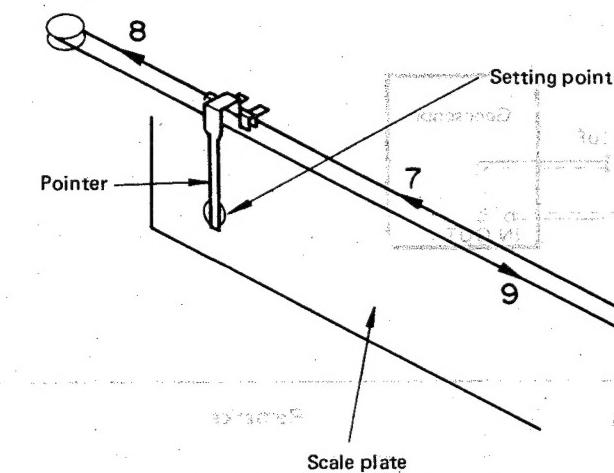
8. Power P.C. board



10. Head phone P.C. board

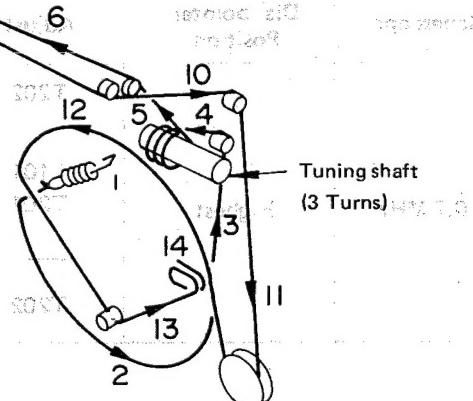


DIAL CORD STRINGING



STRINGING METHOD

1. Turn the pulley fully counterclockwise.
2. String the dial cord in the direction of arrow (No. (1) - (14)).
3. Set the pointer to setting position.



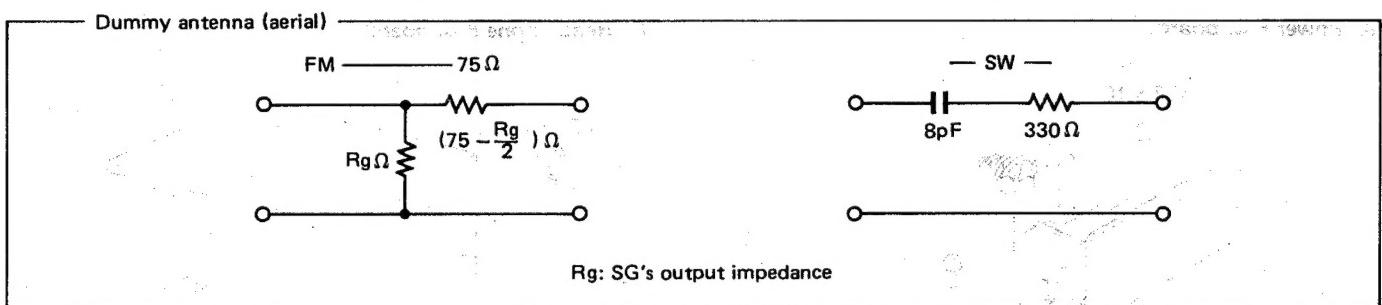
LUBRICATION

Lubricate one or two drops of machine oil to rotating point or lubricate grease to sliding point. Lubricate the respective parts listed below once every 1000 hours or once a year under normal conditions of use. Avoid oiling them excessively, or rotation may become irregular because of oil splashes.

Lubrication	Oil or grease
Motor shaft bearing	Oil
Capstan shaft bearing	
Pressure roller bearing	

ADJUSTMENT

TUNER SECTION

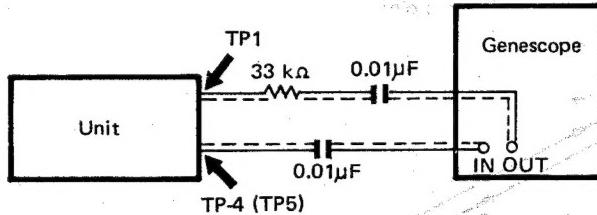


1. FM IF adjustment

Setting:

- Function selector: RADIO
- Band selector: FM
- Mode switch: MONO

Connection:



Adjustment:

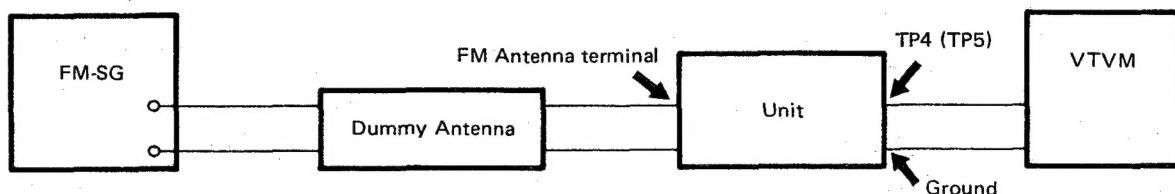
Genescope	Dial pointer Position	Adjust	Reading	Remarks
10.7 MHz	Highest	T202	—	Turn T202 fully counterclockwise.
		T101 T201	Maximum 	1) fc: Specified center frequency of the ceramic filter. 2) Reduce the level of the genescope to make one waveform.
		T202		Adjust T202 for a symmetrical sine wave (S curve) output.

2. FM RF (Covering and Tracking) adjustment

Setting:

- Function selector: RADIO
- Band selector: FM
- Mode switch: MONO

Connection:



Adjustment:

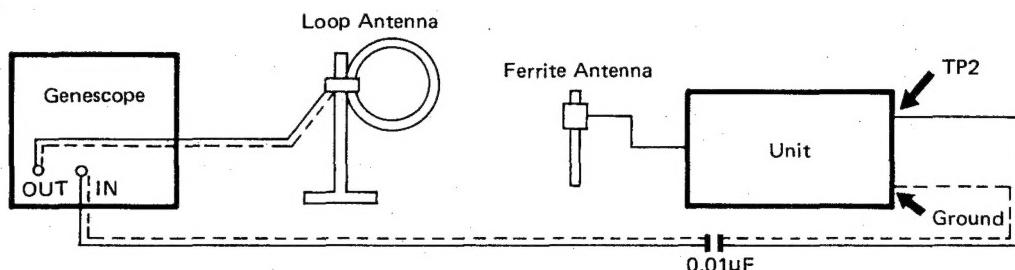
Item	Signal generator		Dial pointer Position	Adjust	Reading	Remarks
	Frequency	Modulation				
1	Covering	87.5 MHz	400 Hz 30%	Lowest	L103	Max.
2		108 MHz		Highest	CT102	
3	Repeat 1 and 2.					
4	Tracking	90 MHz	400 Hz 30%	90 MHz	L101	Max.
5		106 MHz		106 MHz	CT101	
6	Repeat 4 and 5.					

3. AM IF adjustment

Setting:

- Function selector: RADIO
- Band selector: MW

Connection:



Adjustment:

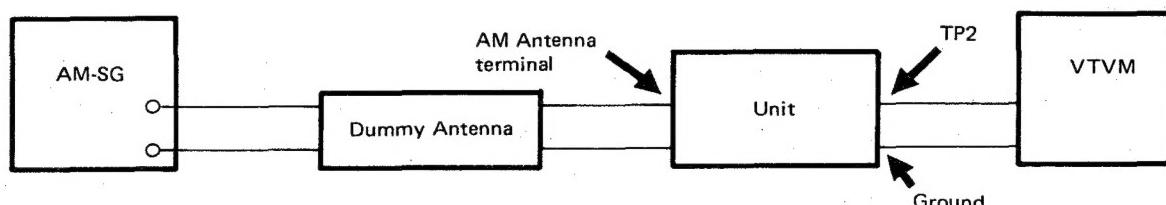
Genescope		Dial pointer Position	Adjust	Reading	Remarks
Frequency	Modulation				
465 kHz	—	Highest	T151 T152 T203	Max.	—

4. SW RF (Covering and Tracking) adjustment

Setting:

- Function selector: RADIO
- Band selector: SW

Connection:



Adjustment:

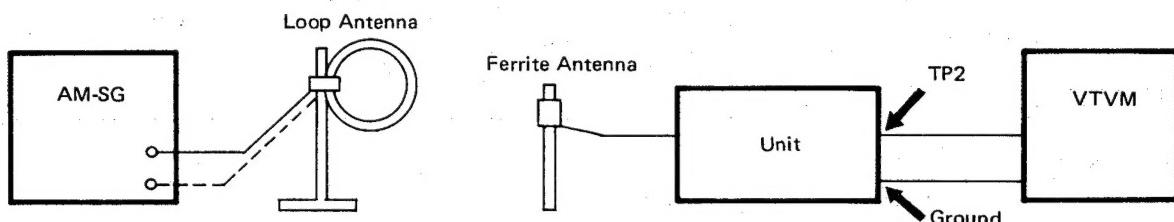
Item	Signal generator		Dial pointer position	Adjust	Reading	Remarks
	Frequency	Modulation				
1 Covering	5.8 MHz	400 Hz 30%	Lowest	L154	Max.	—
2	18.5 MHz		Highest	CT154		
3	Repeat 1 and 2.					
4 Tracking	6.5 MHz	400 Hz 30%	6.5 MHz	L151	Max.	—
5	16 MHz		16 MHz	CT151		
6	Repeat 4 and 5.					

5. MW/LW RF (Covering and Tracking) adjustment

Setting:

- Function selector: RADIO
- Band switch: MW or LW

Connection:



Adjustment:

1) MW

Item	Signal generator		Dial pointer Position	Adjust	Reading	Remarks
	Frequency	Modulation				
1 Covering	515 kHz	400 Hz 30%	Lowest	L155	Max.	—
2	1650 kHz		Highest	CT155		
3	Repeat 1 and 2.					
4 Tracking	600 kHz	400 Hz 30%	600 kHz	L152	Max.	—
5	1400 kHz		1400 kHz	CT152		
6	Repeat 4 and 5.					

2) LW

Item	Signal generator		Dial pointer Position	Adjust	Reading	Remarks
	Frequency	Modulation				
1 Covering	145 kHz	400 Hz 30%	Lowest	L156	Max.	—
2	360 kHz		Highest	CT156		
3	Repeat 1 and 2.					
4 Tracking	160 kHz	400 Hz 30%	160 kHz	L153	Max.	—
5	330 kHz		330 kHz	CT153		
6	Repeat 4 and 5.					

INSPECTION

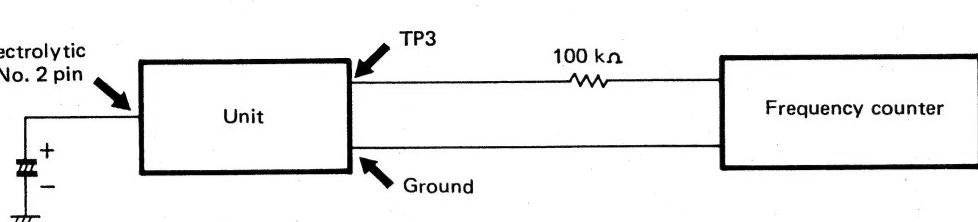
6. FM MPX (Multiplex) adjustment

Setting:

- Function selector: RADIO
- Mode switch: STEREO

Connection:

Connect a $10\mu\text{F}$ 25V electrolytic capacitor between the No. 2 pin of IC301 and Ground.



Adjustment:

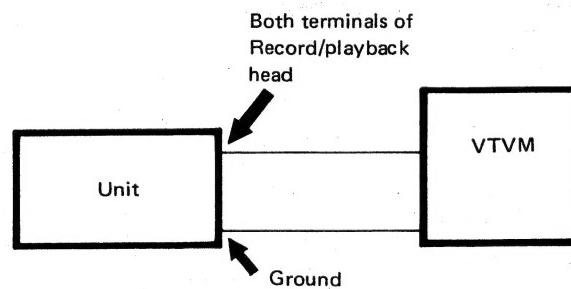
Adjust	Reading	Remarks
RT301	$19 \text{ kHz} \pm 100 \text{ Hz}$	—

TAPE DECK SECTION

1. Bias current adjustment

Setting: Recording mode

Connection:

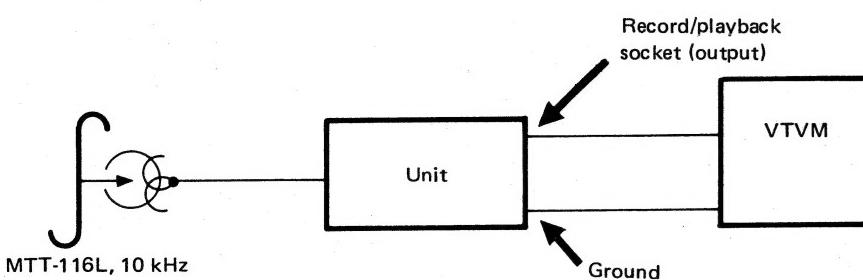


Adjustment: Set the record mode. Adjust RT401 so that the bias voltage of 7V is applied to the both terminals of Record/Playback head.

2. Head azimuth adjustment

Setting: Playback mode

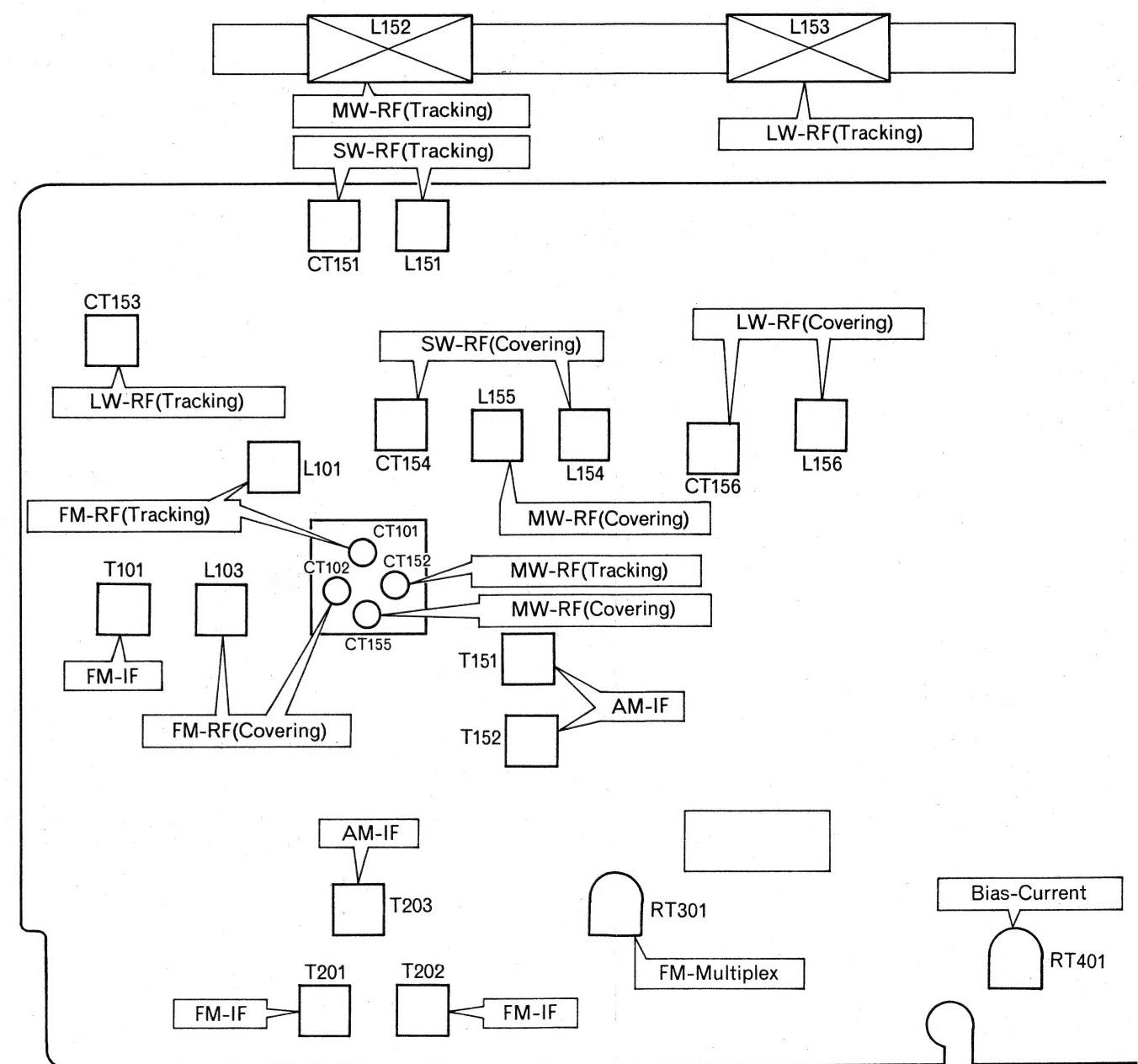
Connection:



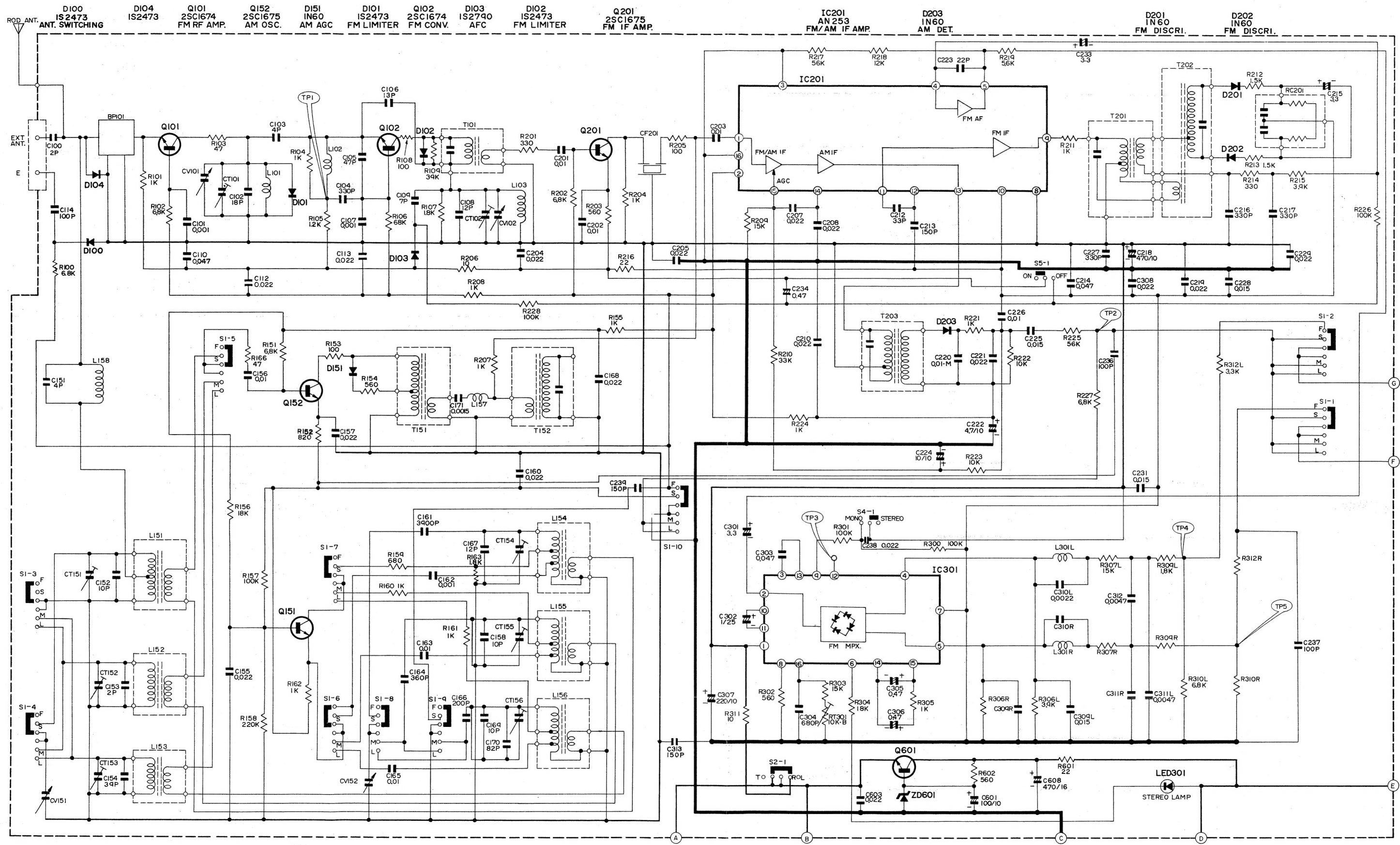
Adjustment: Playback a test tape (MTT116L, 10 kHz) and adjust the azimuth adjustment screw for maximum output.

Mode	Item	Pressure or Torque
Playback	Pressure of pressure roller	350 g 500g
	Take-up torque	35g-cm 60g-cm
	Supply reel back tension	1.5g-cm 3.5g-cm
Rewind	Rewind torque	60g-cm 90g-cm
Fast Forward	Fast Forward torque	65g-cm 90g-cm

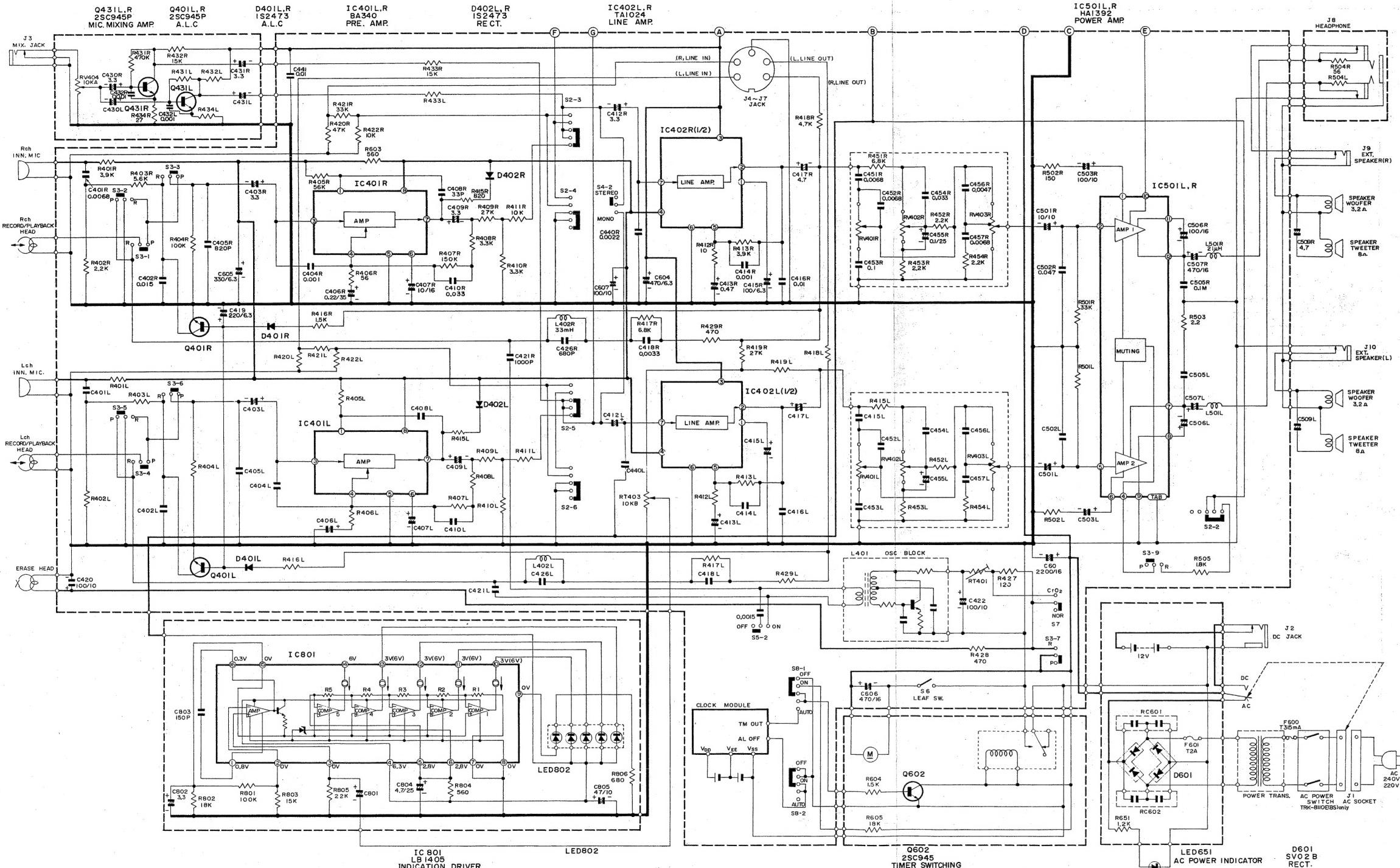
ADJUSTMENT PARTS LOCATION



SCHEMATIC DIAGRAM (Tuner Section)

Q151
2SCI674
AM CONV.IC301
BA1330
FM MPX.Q601
2SCI368
VOLT. STAB.
ZD601
RD75E
VOLT. STAB.

SCHEMATIC DIAGRAM (Tape Recorder/AF/Power Section)



Note

1. Voltage measured at base of chassis with minimum volume control and no signal.
2. Nomenclature of Resistors and Capacitors.

Circuit No.	
Value	No indicated Ω (Ohm) M : 1000 k Ω
Tolerance	No indicated $\pm 5\%$ K : $\pm 10\%$ M : $\pm 20\%$
Wattage	No indicated $1/4W$
Sort	No indicated Carbon film RC : Composition RW : Wire wound RS : Oxide metal film RN : Fixed metal film

Circuit No.	
Value	No indicated μF P : PF
Tolerance	No indicated $\pm 10\%$ J : $\pm 5\%$ M : $\pm 20\%$ Z : $\pm 80\%$, -20% D : $\pm 0.5\mu F$ C : $\pm 0.25\mu F$
Sort	Ceramic Electrolytic Mylar Polyester Styrol
Voltage	No indicated 50WV

3. Be sure to make your orders of resistors and capacitors with value, voltage, tolerance and sort.
4. When replacing capacitors marked with *, use specified ones stated on parts list since required temperature characteristics.

CIRCUIT BOARD DIAGRAM (MAIN P.C. Board)

: Ground

: Signal, +B

IC 402L,R

I	I	V	6	0 V	11	5 V
2	3.6V	7	0.7V	12	6.3V	
3	6.3V	8	0.7V	13	3.6V	
4	5 V	9	0 V	14	1 V	
5	0.2 V	10	0.2V			

Q601

B	6.8V
C	9.5V
E	6.3V

IC 401L,R

I	I	V	5	0 V
2	—	6	0.5 V	
3	0.5 V	7	2.1 V	
4	0 V	8	5.0 V	

Q401L,R

B	0.2 V
C	0 V
E	0 V

Q152

B	1.6 V
C	5.9 V
E	0.9 V

Q151

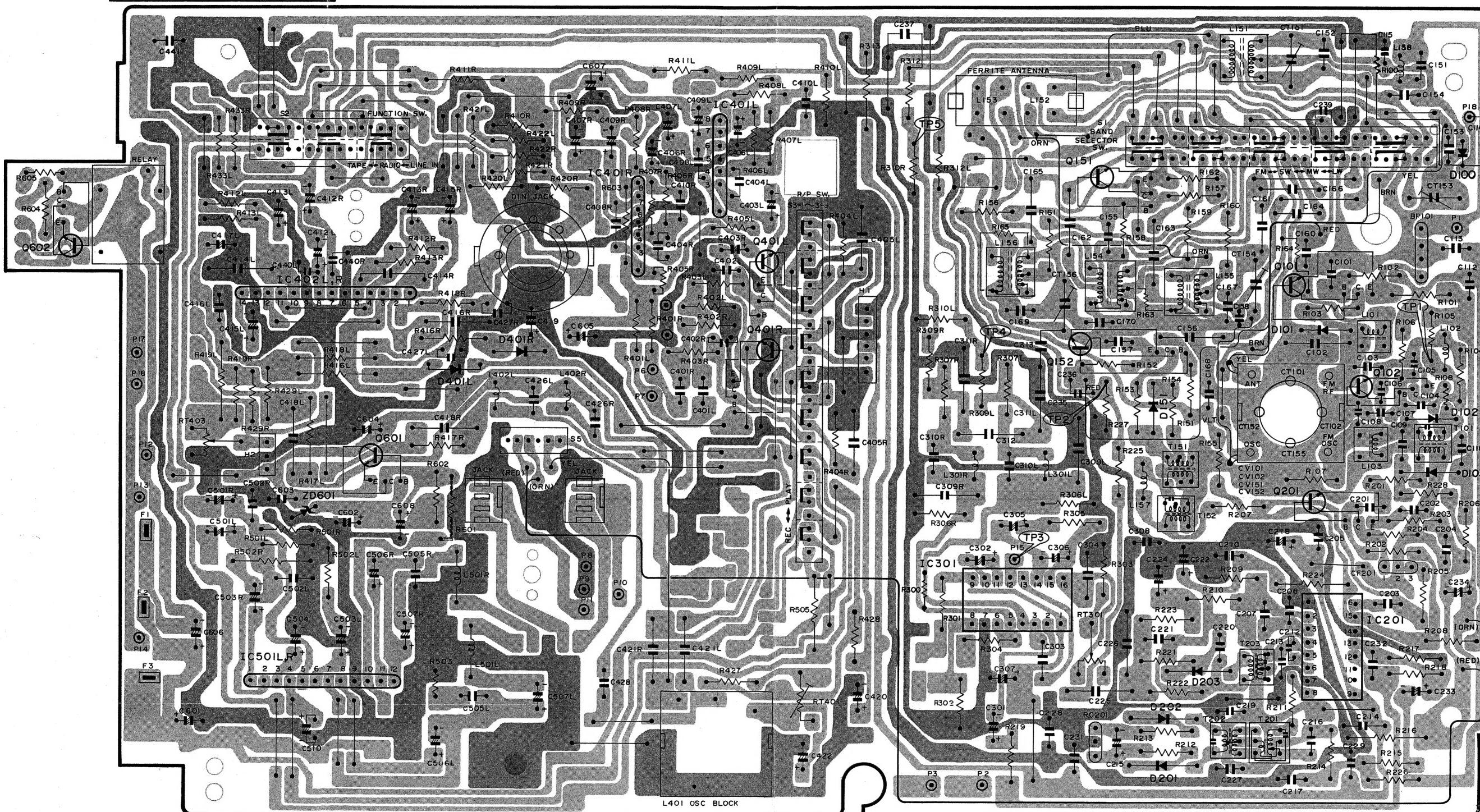
B	1.6 V
C	5.9 V
E	0.9 V

Q101

B	1.5 V
C	5.6 V
E	0.8 V

Q102

B	1.5V
C	5.6V
E	0.8V



IC 501L,R

I	0.6 V	5	0 V	9	0 V
2	0 V	6	0.6 V	10	12 V
3	4.7 V	7	6 V	11	11.5 V
4	0 V	8	-11.5 V	12	6.3 V

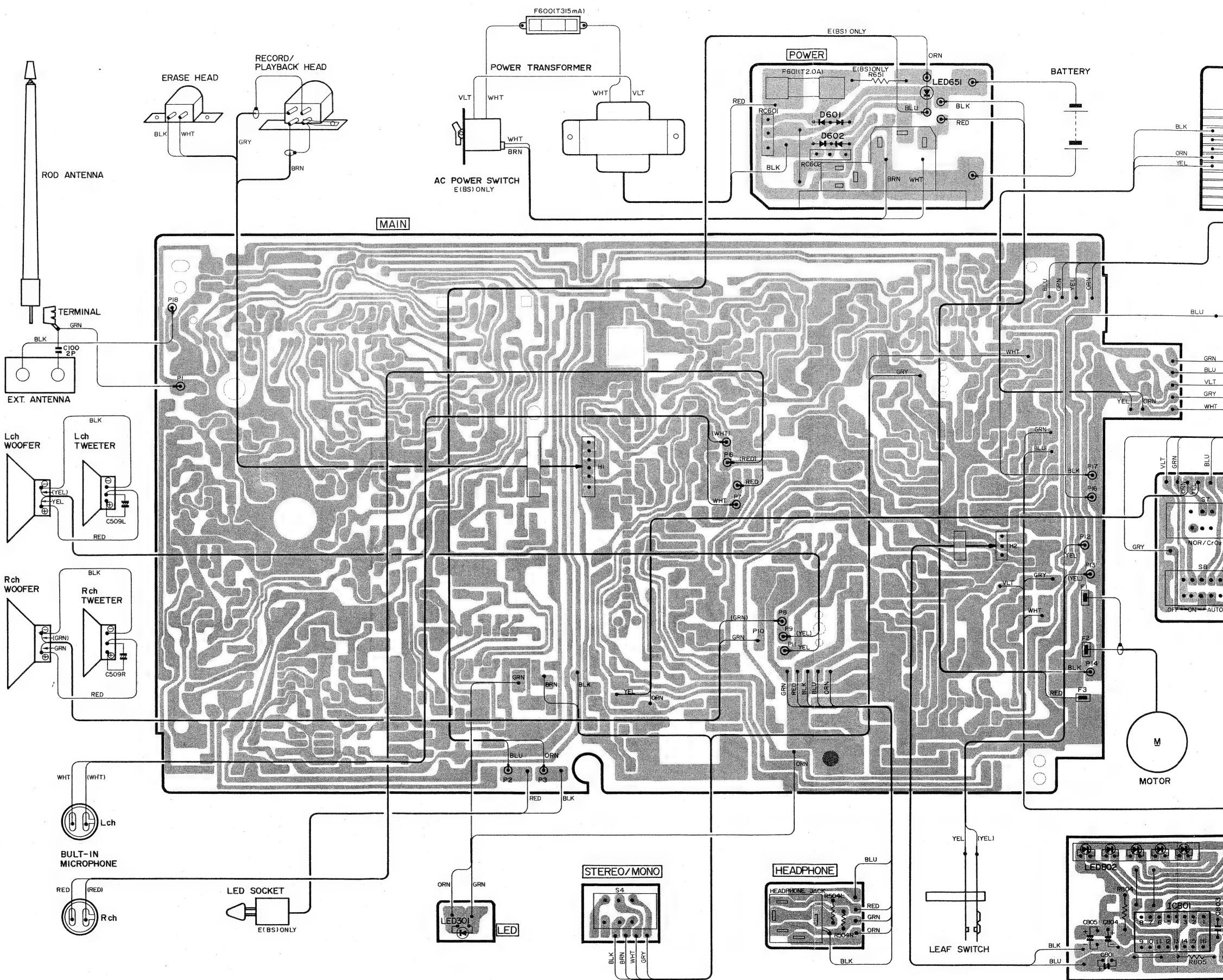
IC 301

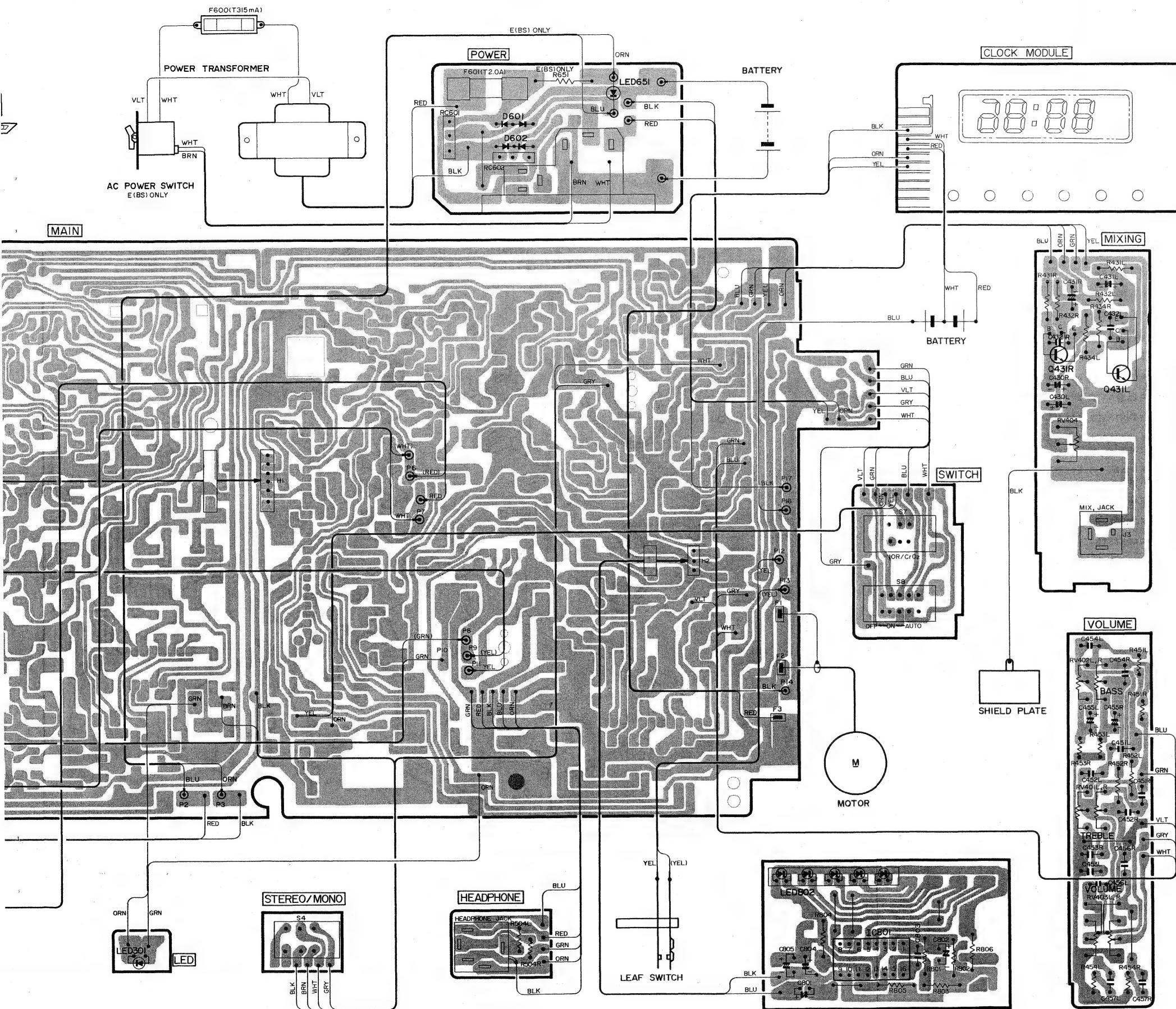
I	6 V	5	1.5 V	9	0.7 V	13	1.6 V	I	0.7 V	5	1.8 V	9	4 V	13	5.2 V
2	1.5V	6	5.5 V	10	1.6 V	14	1.6 V	2	1.6 V	6	—	10	5.9 V	14	0.7 V
3	1.9 V	7	0 V	11	1.6 V	15	1.6 V	3	0 V	7	—	11	0.7 V	15	0.4 V
4	1.5 V	8	0.2 V	12	1.2 V	16	2 V	4	1.4 V	8	5.6 V	12	0.7 V	16	0 V

Q201

B	1.6 V
C	5.9 V
E	0.9 V

WIRING DIAGRAM

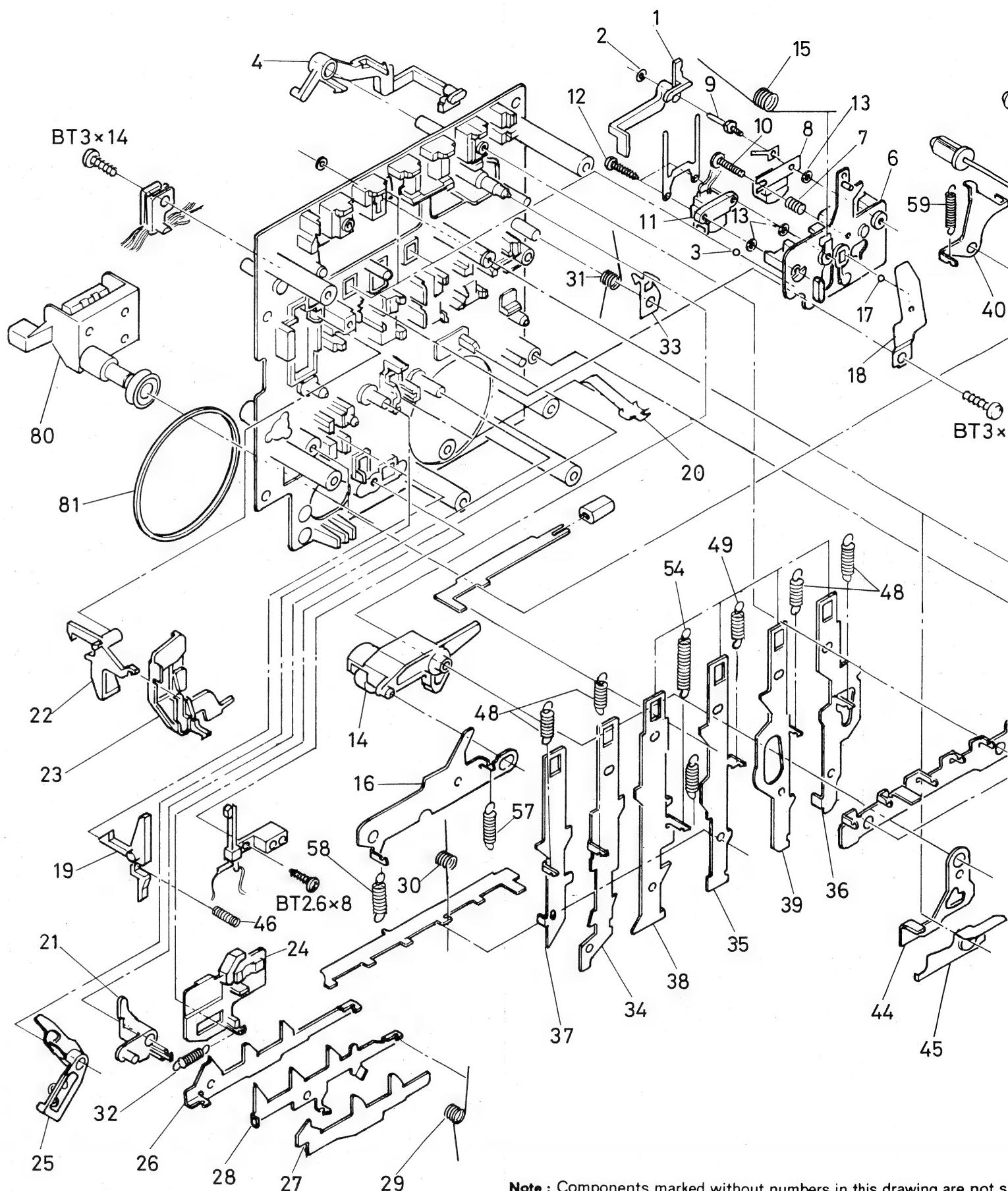




REPLACEMENT PARTS LIST

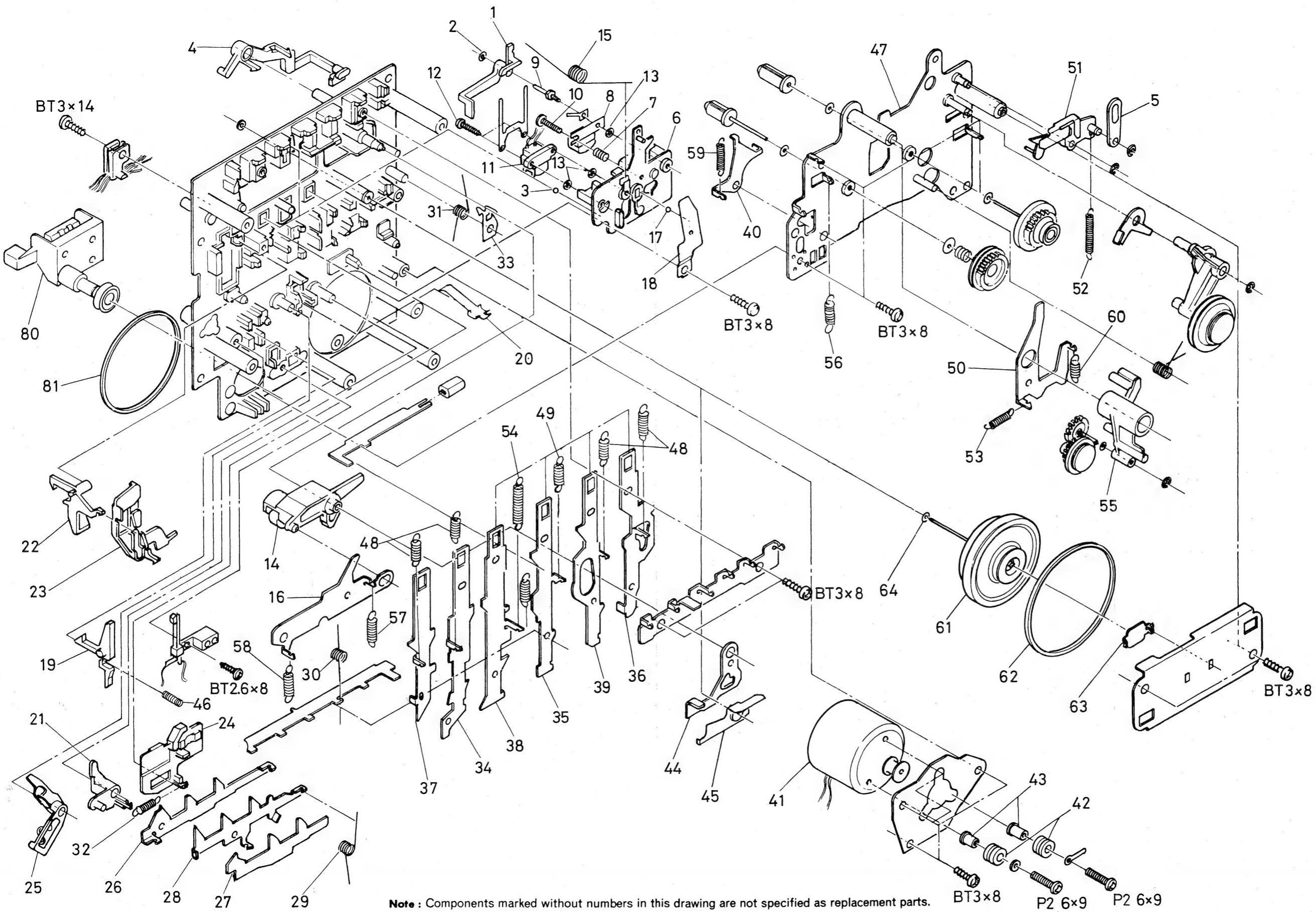
EXPLODED VIEW

SYMBOL-NO	P-NO	DESCRIPTION	SYMBOL-NO	P-NO	DESCRIPTION
CAPACITORS					
CT101	5052391	PLASTIC FILM VARIABLE	D102	5330574	DIODE IS2473
CT102	5052391	PLASTIC FILM VARIABLE	D103	5330661	DIODE SILICON LS2790 200MHZ 80MW
CT151	5058191	TRIMMER 10PF	D151	5330732	DIODE GERMANIUM 1N60P 80MHZ 50MW
CT152	5052391	PLASTIC FILM VARIABLE	D201-203	5330732	DIODE GERMANIUM 1N60P 80MHZ 50MW
CT153	5058191	TRIMMER 10PF	D401LR	5330574	DIODE IS2473
CT154	5058191	TRIMMER 10PF	D402LR	5330571	DIODE IS2473VE
CT155	5052391	PLASTIC FILM VARIABLE	D601	5330374	DIODE SV-02B
CT156	5058102	VARIABLE CAPACITOR	D602	5330373	DIODE SV-01B
CV101	5052391	PLASTIC FILM VARIABLE	IC201	5351064	IC AN253BB
CV102	5052391	PLASTIC FILM VARIABLE	IC301	5350684	IC BA1330
CV151	5052391	PLASTIC FILM VARIABLE	IC401LR	5350961	IC BA340
CV152	5052391	PLASTIC FILM VARIABLE	IC402LR	5357001	IC TA1024
C102	0208132	CERAMIC DISC (RESISTOR SHAPE) 18PF+-5%	IC501LR	5352141	IC HA1392
C106	0246443	CERAMIC CAPACITOR 13PF+-5% DC500WV	IC801	5359581	IC LB1405
C108	0246470	CERAMIC DISC 10PF+-0.25PF (N-750)	LED301	5380182	LED LR0302R
C109	0246427	CERAMIC DISC 7PF+-0.5PF (NP-0)	LED601	5380241	LED GL 3PR1 (BS)
C156	0209026	CERAMIC DISC (RESISTOR SHAPE) 0.01M F+-30	LED802	5380462	LED LN05202P
C162	0209010	CERAMIC DISC (RESISTOR SHAPE) 1000P F+-10	Q101	5321271	TRANSISTOR SILICON 2SC1674L 600MHZ
C163	0209026	CERAMIC DISC (RESISTOR SHAPE) 0.01M F+-30	Q102	5321271	TRANSISTOR SILICON 2SC1674L 600MHZ
C226	0209026	CERAMIC DISC (RESISTOR SHAPE) 0.01M F+-30	Q151	5321271	TRANSISTOR SILICON 2SC1674L 600MHZ
C311LR	0209024	CERAMIC DISC (RESISTOR SHAPE) 4700P F+-30	Q152	5321281	TRANSISTOR SILICON 2SC1675-L 230MHZ 200M
C312	0209024	CERAMIC DISC (RESISTOR SHAPE) 4700P F+-30	Q201	5321281	TRANSISTOR SILICON 2SC1675-L 230MHZ 200M
C405LR	0209009	CERAMIC DISC (RESISTOR SHAPE) 820PF +-10%	Q401LR	5320813	TRANSISTOR 2SC945P
C414LR	0209010	CERAMIC DISC (RESISTOR SHAPE) 1000P F+-10	Q431LR	5320813	TRANSISTOR 2SC945P
C416R	0209026	CERAMIC DISC (RESISTOR SHAPE) 0.01M F+-30	Q601	5320922	TRANSISTOR 2SC1368C
C418LR	0209023	CERAMIC DISC (RESISTOR SHAPE) 3300P F+-30	Q602	5322213	TRANSISTOR 2SC1741R
C421LR	0209010	CERAMIC DISC (RESISTOR SHAPE) 1000P F+-10	ZD601	5330844	ZENER DIODE RD7.5EB
TRANSFORMERS					
△ PT	5211736	POWER (BS)			
△ PT	5212181	POWER			
T101	5140071	FM IFT			
T151	5130153	AM IF			
T152	5130121	AM IFT			
T201	5148111	FM DISCRIMINATOR			
T202	5148112	FM DISCRIMINATOR			
T203	5130122	AM IFT			
COILS					
L101	5126006	FM RF COIL 0.5 MICROH			
L102	5126391	FM			
L103	5126362	FM-OSC			
L151	5123493	SWITCH ANTENNA			
L152	5113481	FERRITE ANTENNA			
L153	5113481	FERRITE ANTENNA			
L154	5123494	SW OSC			
L155	5120319	OSCILLATOR COIL			
L156	5120465	LW OSC			
L157	5152091	CHOKE 180MICRO H			



Note : Components marked without numbers in this drawing are not s

EXPLODED VIEW



Note : Components marked without numbers in this drawing are not specified as replacement parts.

SYMBOL-NO	P-NO	ITEM NO.	DESCRIPTION	REMARKS	SYMBOL-NO	P-NO	ITEM NO.	DESCRIPTION	REMARKS
COILS									
L158	0333116	CHOKE COIL			9	7545533	SPECIAL SCREW		
L301LR	5150571	CHOKE COIL 33MH			10	7781004	SCREW		
L401	5260641	OSCILLATOR BLOCK			11	5445101	ERASE HEAD		
L402LR	5150571	CHOKE COIL 33MH			12	7780913	TAPPING SCREW-2MMDX10MM		
L501LR	5150761	CHOKE COIL			13	7778183	POLYESTER WASHER		
MISCELLANEOUS									
△	5310401	CLOCK MODULE (LX-3412H)			14	6383142	PRESSURE ROLLER ARM ASSEMBLY		
△	5653241	AC-DC SOCKET			15	6307741	SPRING		
	5658071	LED SOCKET (BS)			16	7286182	PR. LEVER		
	5659121	BACK COVER			17	0948492	BALL - 2MMD		
ANT	5752461	ROD ANTENNA			18	6329637	HEAD PLATE HOLDER		
BP101	5161551	FILTER			19	6741103	RECORDING PREVENTION ARM		
CF201	5160301	CERAMIC FILTER 10.7MHZ			20	6530471	CASSETTE HOLDER		
FM ANT J	5671661	FM ANTENNA TERMINAL			21	6756261	BRAKE FUNCTION ARM		
F600	5720171	FUSE			22	6740982	EJECT ARM		
F601	5720177	FUSE 2A			23	6741186	EJECT SLIDER		
J 3	5673081	JACK (MIX MIC)			24	6756331	AUTO STOP FUNCTION PLATE		
J 4-7	5653211	DIN JACK			25	6741712	SWITCH FUNCTION ARM		
J 8	5674131	HEADPHONE JACK			26	7287692	SW. PLATE		
J 9	5673261	JACK-3.5MMD			27	7297951	RC PLATE		
J10	5673261	JACK-3.5MMD			28	7288494	FUNCTION PLATE		
MIC	5421508	BUILT IN MICROPHONE			29	6308102	SPRING ARM		
RL	5641171	RELAY			30	6307733	SPRING		
S 1	5625011	SLIDE SWITCH			31	6307711	SPRING LEVEL ADJUST		
S 2	5620501	SWITCH-SLIDE			32	6300375	SPRING FOR RECORDING PLATE		
S 3	5623431	SLIDE SWITCH			33	7286241	PAUSE LOCK PIECE		
S 4	5634158	PUSH SWITCH			34	7297851	RECORDING SLIDER (B)		
S 5	5621184	SLIDE SWITCH			35	7297841	REWIND SLIDER (B)		
S 6	5603231	LEAF SWITCH			36	7286042	PAUSE SLIDER ASSEMBLY		
S 7	5604082	LEVER SWITCH			37	7297831	STOP SLIDER (B)		
S 8	5604092	LEVER SWITCH			38	7297491	PLAY SLIDER (B)		
SP	5401121	SPEAKER-5CM			39	7297481	FAST FORWARD SLIDER (B)		
SP	5406412	SPEAKER-12CM			40	7286193	RECORDING LOCK LEVER		
S601	5602021	SEESAW SWITCH (BS)			41	7109503	MOTOR ASSEMBLY		
FOR ACCESSORIES									
△	5747321	POWER CORD			42	6576083	RUBBER PLATE		
△	5746341	CORD ASSEMBLY (BS)			43	5661371	COLLAR		
	5896391	FM ANTENNA (BS)			44	7287819	RC LEVER		
FOR CASSETTE DECK ASSEMBLY (A)									
1	6752792	PICK UP PIECE			45	7311142	FF FUNCTION LEVER		
2	7786115	POLYESTER WASHER			46	6304161	SPRING		
3	0948492	BALL - 2MMD			47	7109492	TURNTABLE HOLDER ASSEMBLY		
4	6752801	PICK UP LEVER			48	6300375	SPRING FOR RECORDING PLATE		
5	7311882	JOINT PLATE			49	6324814	SPRING		
6	7105836	HEAD PLATE			50	7286031	FR LEVER		
7	6321734	SPRING			51	7317881	SETTING OFF LEVER ASSEMBLY		
8	5444761	RECROD PLAYBACK HEAD			52	6302957	SPRING		
					53	6301101	SPRING		
					54	6301233	SPRING		
					55	7109603	FF,REWIND ARM ASSEMBLY		
					56	6300981	SPRING		

SYMBOL-NO	P-NO	DESCRIPTION	QTY	SYMBOL-NO	P-NO	DESCRIPTION	QTY
FOR CASSETTE DECK ASSEMBLY (A)							
57	6301361	SPRING	1	86	6296381	SWITCH KNOB	1
58	6323064	SPRING	1	87	7765871	SPACER	1
59	6301721	SPRING	1	88	6051633	PUSH BUTTON (MODE)	1
60	6300996	SPRING	1	89	6287513	KNOB-16MMD	1
61	6373281	FLYWHEEL ASSEMBLY	1	90	6289231	KNOB-21MMD	1
62	6354211	BELT	1	91	6282687	KNOB-20MMD	1
63	6743884	THRUST SUPPORT	1	92	6334121	HANDLE ASSEMBLY	1
64	7786621	POLYSLIDER WASHER	1	93	6756861	HANDLE PIECE	1
FOR CASSETTE DECK ASSEMBLY (B)							
65	6756952	CHASSIS ASSEMBLY	1	94	6570221	MICROPHONE HOLDER	1
66	6316231	SPRING	1	95	6282993	KNOB-14MMD	1
67	6394412	POINTER	1	96	7781148	BT SCREW-3MMDX50MM	1
68	6345594	PULLEY-100MMD	1	97	8699410	BT BIND HEAD SCREW-3MMDX10MM (BLACK)	1
69	7781146	BT SCREW-3MMDX20MM	1	98	6033781	FRONT CASE ASSEMBLY	1
70	6756851	STUD	1	99	6033782	FRONT CASE ASSEMBLY (BS)	1
71	6750821	EXCHANGE LEVER	1	100	6052683	PUSH BUTTON (LCD)	1
72	6750822	EXCHANGE LEVER	1	101	6533262	SPRING FOR LCD BUTTON	1
73	6756831	LEVER HOLDER	1	102	6092441	CASSETTE LID ASSEMBLY	1
74	6750851	ARM (BAND SELECT)	1	103	7781133	BT SCREW-3MMD	1
75	6750846	LEVER (BAND SELECT)	1	104	7781134	BINDING SCREW	1
76	6756901	FUNCTION SLIDER	1	105	6033811	REAR CASE ASSEMBLY	1
77	6750872	LEVER (FUNCTION)	1	106	6033812	REAR CASE ASSEMBLY (BS)	1
78	6467734	SCALE PLATE	1	107	6173452	BATTERY LID ASSEMBLY	1
79	7312812	RECORD SPRING ASSEMBLY	1	108	5687142	CAP TERMINAL	1
80	5559311	COUNTER	1	109	8744414	BIND SCREW-3MMDX14MM	1
81	6354471	COUNTER BELT	1	110	6308961	SPRING	1
82	6257643	BUTTON ASS.(REC)	1	111	6545651	BATTERY TERMINAL	1
83	6257644	BUTTON ASS.(PAUSE,FF,REW,PLAY,STOP/EJECT)	1	112	6329722	BATTERY TERMINAL	1
MISCELLANEOUS							
84	6282732	KNOB (TUNING)	1	113	6756891	TERMINAL HOLDER	1
85	6282701	KNOB ASSEMBLY	1	114	6303483	SPRING	1
STANDARD HARDWARE							
ADJUSTMENT SCREW							
WASHER							
TERMINAL							
SPRING							
SCREW							

Type of head	Length (L mm)		Diameter (D mm)	
	P	BT	W	E
Pan head screw				
Flat countersunk head screw				
Binding head screw				
Round head tapping screw				

When ordering hardware, excluding those stated on these lists, be sure to make your orders with type and size.

8. A-K10 Schematic Diagram

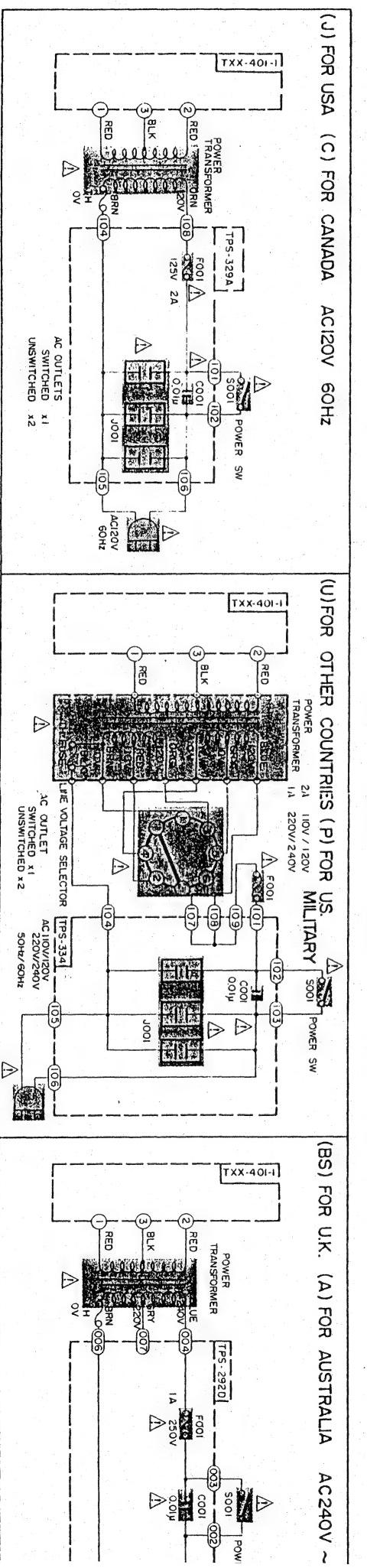
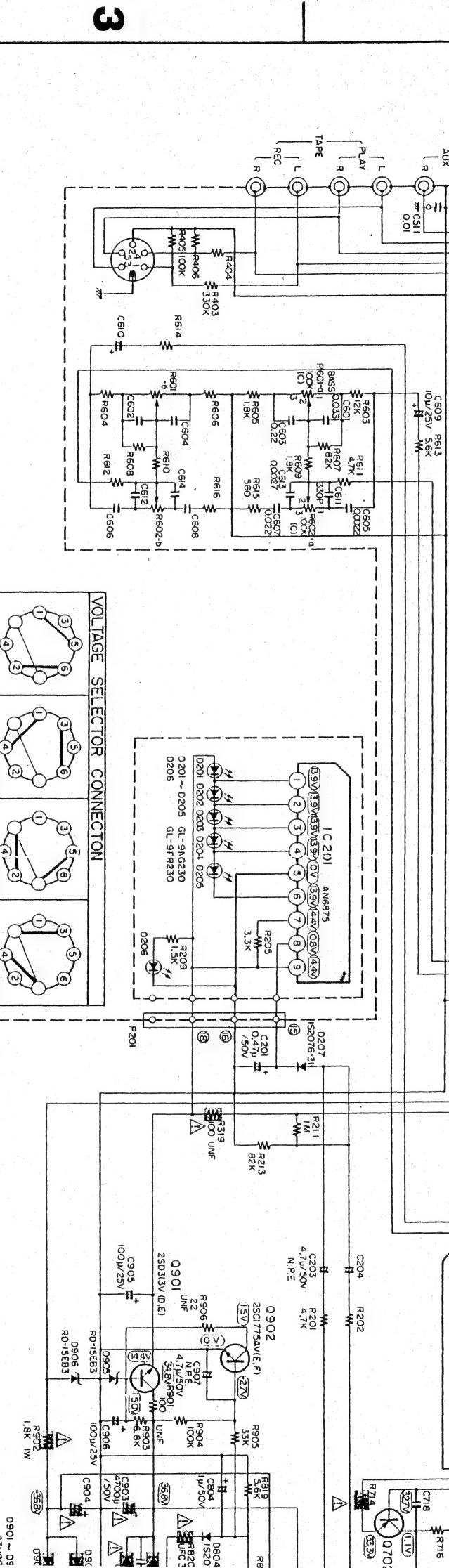
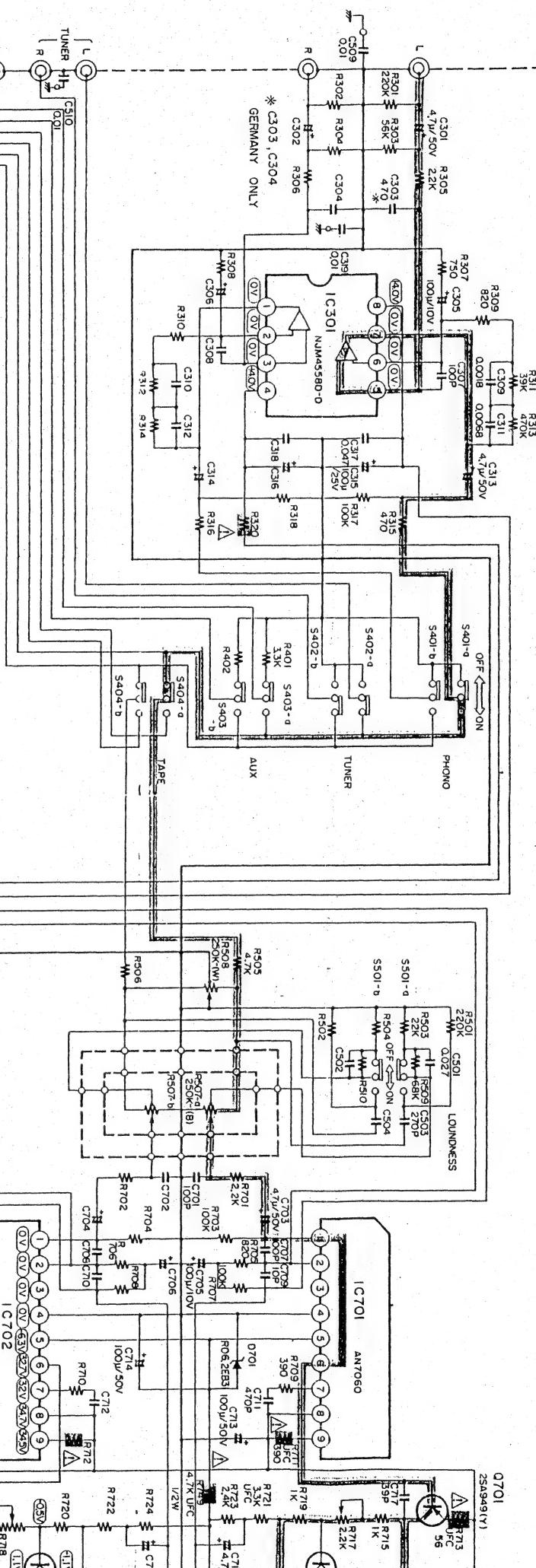
A

B

C

D

$$\triangle \psi_01 - \psi_04 = Q5T\bar{H}A2 - \Xi_01$$



A

B

C

D

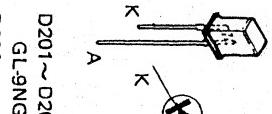
Printed Circuit Board Ass'y Locations

P.C. Board Ass'y	Description	Page
TXX-401A/B/C/D	Main Amp. P.C. Board Ass'y	6
TPS-292C/DBS	AC P.C. Board Ass'y	9
TPS-334A	"	9
TPS-329A	"	9

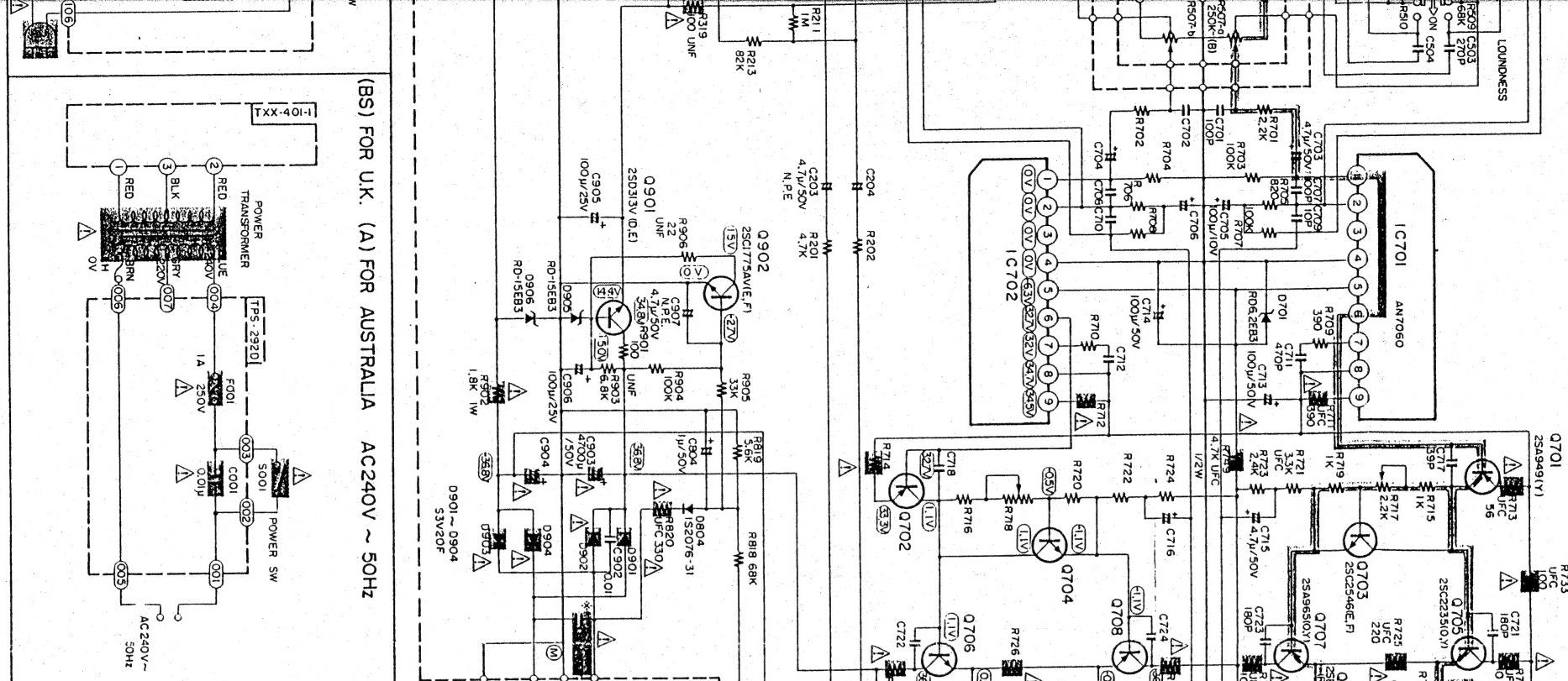
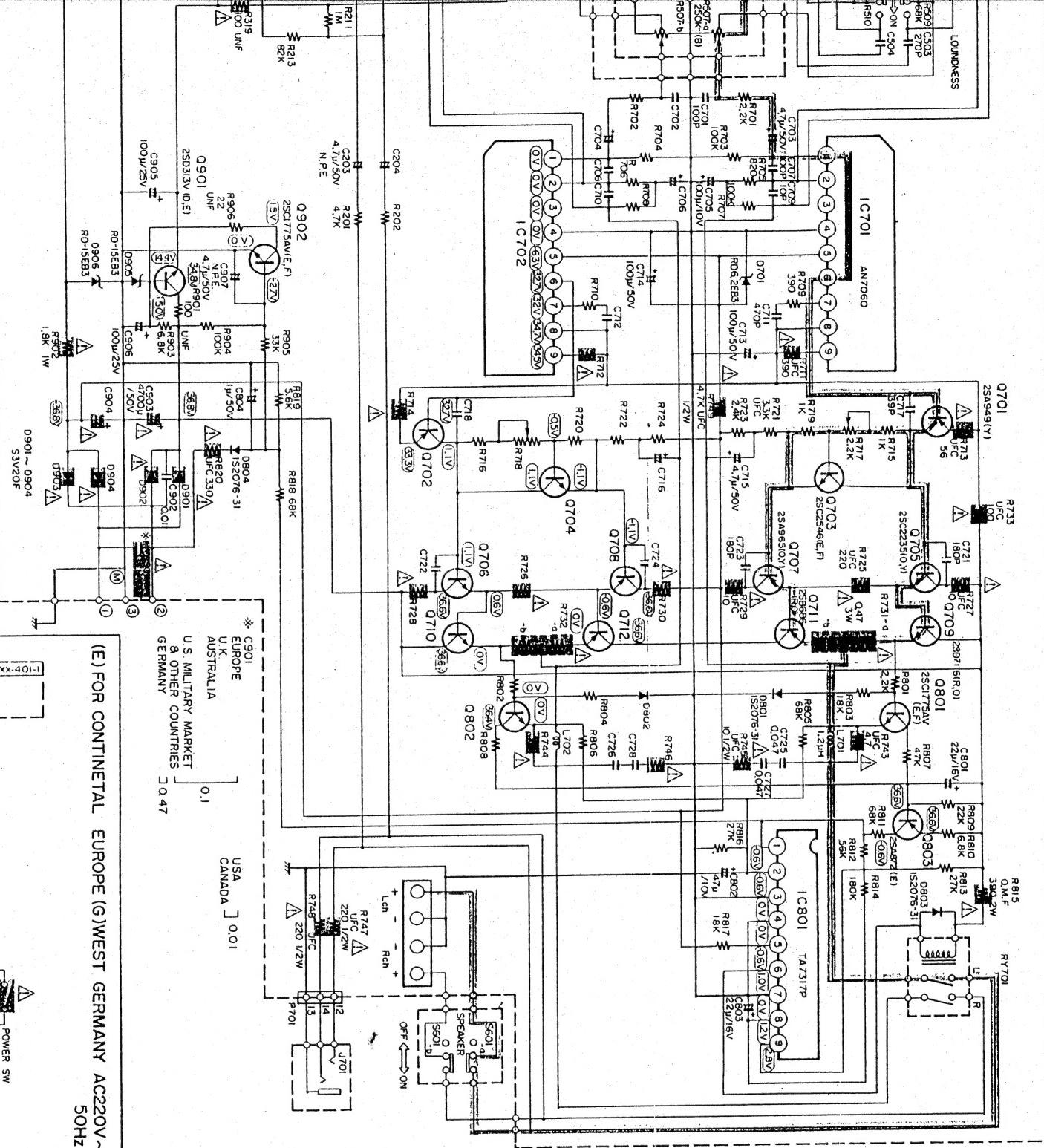
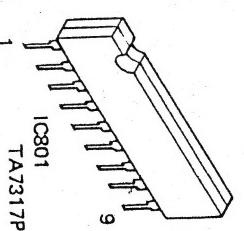
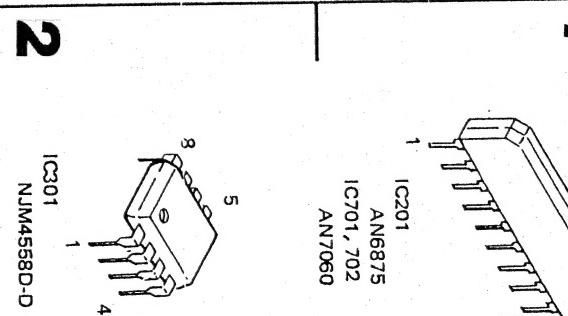
Notes:

1. Voltage values in \square are positive.
2. Voltage values in \square are negative.
3. \triangle indicates signal path.
4. When replacing the parts in the darkened area (\blacksquare) and those marked with \triangle , be sure to use the designated parts to ensure safety.
5. Parts in red indicate transistors or ICs.
6. This is the standard circuit diagram.

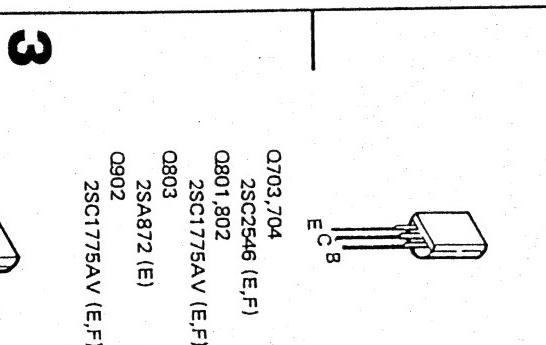
The design and contents are subject to change without notice.



D201~D20
GL-9NG2
D206
GL-9PR2

D**E****E****F****1****2**

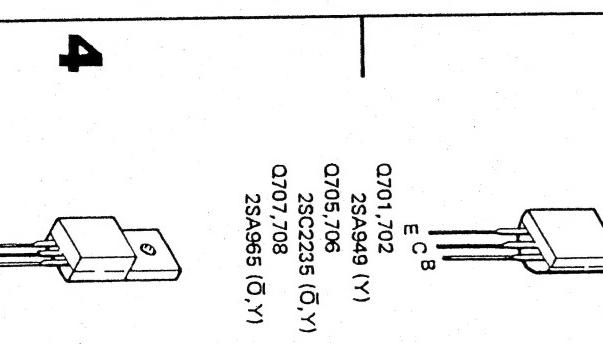
IC201
AN6875
IC701,702
AN760

**3**

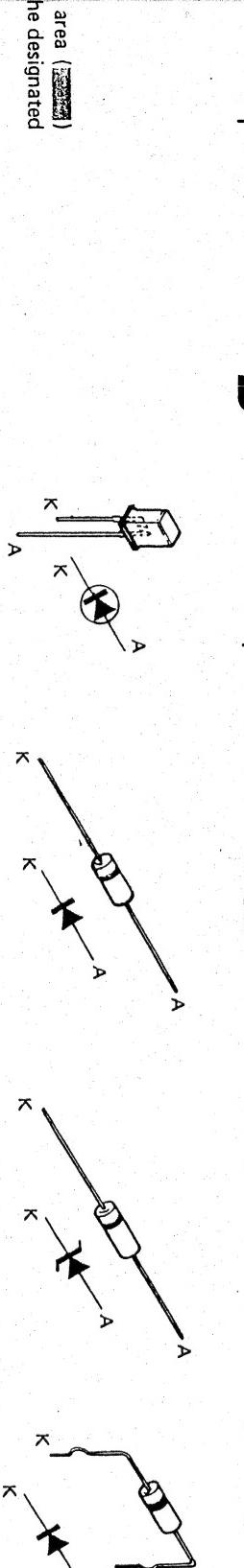
IC501
NJM4558D-D
Q703,704
2SC2546 (E,F)
0801,802
2SC1775AV (E,F)
Q803
2SA872 (E)
0902
2SC1775AV (E,F)

3

IC501
NJM4558D-D
Q703,704
2SC2546 (E,F)
0801,802
2SC1775AV (E,F)
Q803
2SA872 (E)
0902
2SC1775AV (E,F)

**4**

IC901
2SD313V (D,E)
Q701,702
2SA949 (Y)
0705,706
2SC2235 (O,Y)
Q707,708
2SA965 (O,Y)

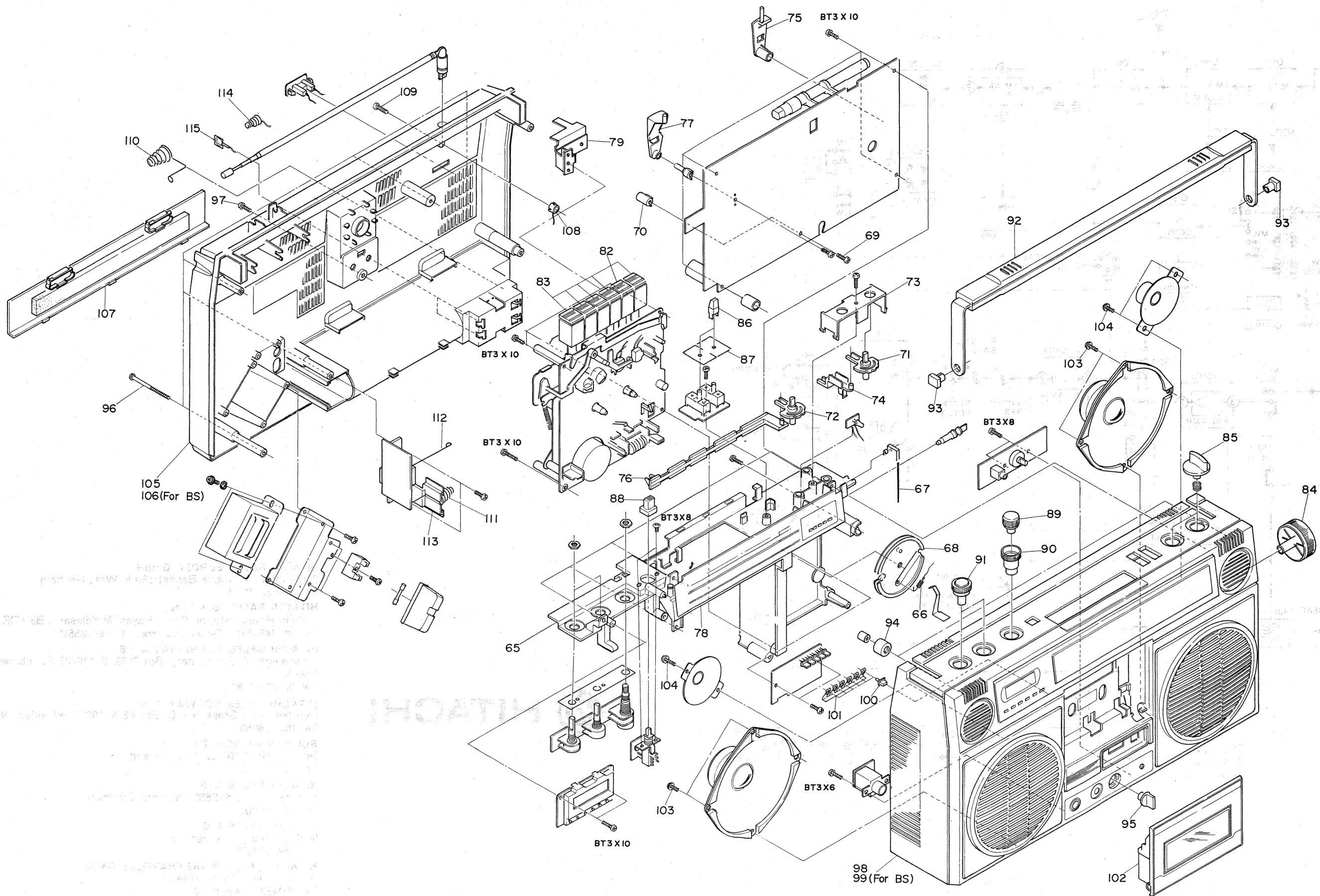
4**4**

area ()
the designated
range without
D201~D205
GL-9NG230
D206
GL-9PR230
D801~D804
1S2076-31
D905,906
RD-15EB3
D901~D904
S3V20F

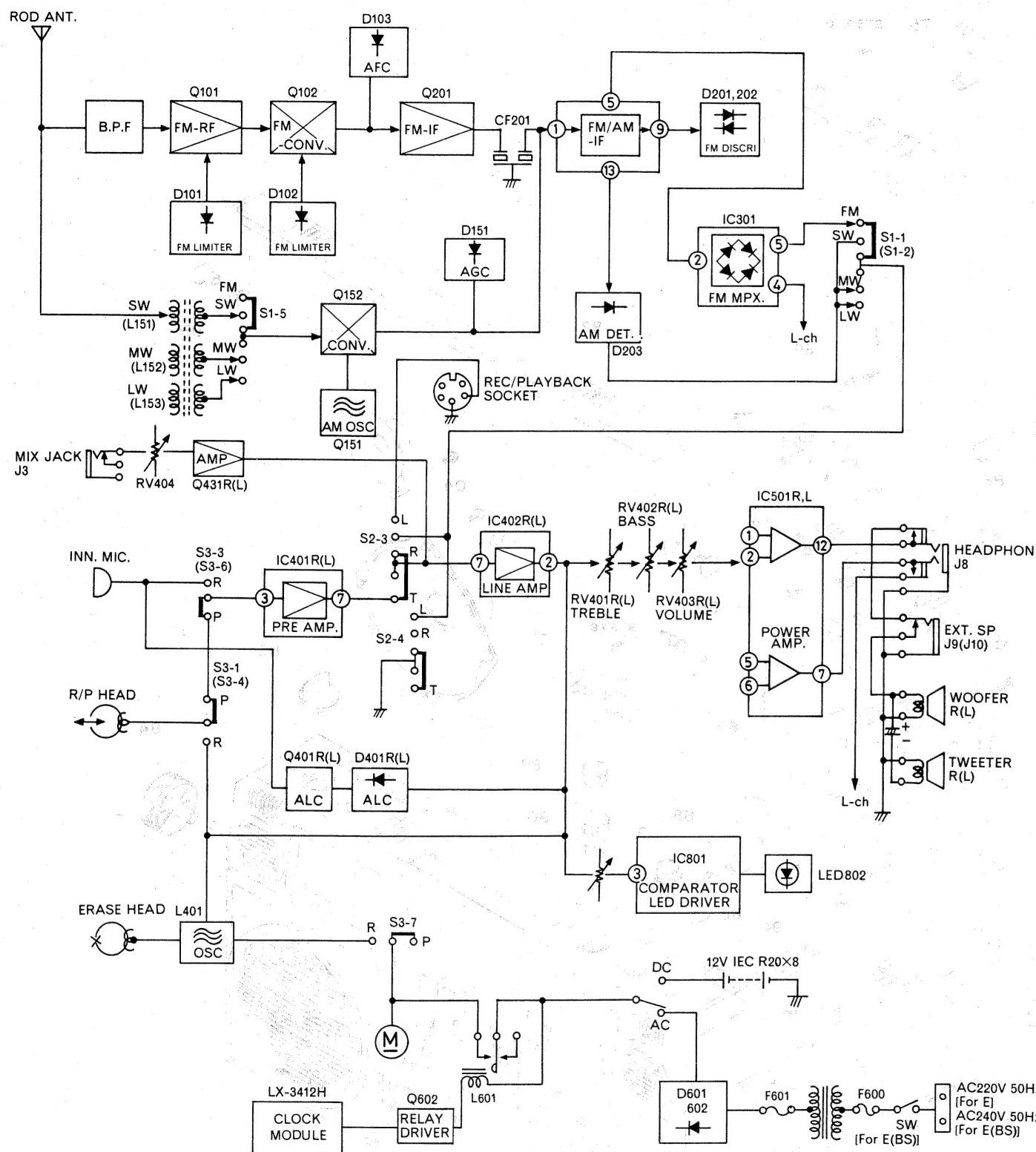
4

A-K10

EXPLODED VIEW



BLOCK DIAGRAM



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